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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

11/12/2009

PANITCH SCHWARZE BELISARIO & NADEL LLP ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103 EXAMINER

NUTTER, NATHAN M

ART UNIT PAPER NUMBER

1796 DATE MAILED: 11/12/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/596,242      | 06/06/2006  | Yoshio Asakura       | 9369-119US          | 4058             |

TITLE OF INVENTION: VINYL-CIS-POLYBUTADIENE RUBBER AND BUTADIENE RUBBER COMPOSITION USING THE SAME

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 02/12/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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| appropriate. All further   | correspondence includired below or directed oth  | g the Patent, advance of  | rders and notification of n  | naintenance fees wi   | II be ma   | ailed to the current  | nould be completed where<br>correspondence address as<br>arate "FEE ADDRESS" for   |  |
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|  | ENCE ADDRESS (Note: Use BI   | ock 1 for any change of address)  | Note<br>Fee(<br>pape<br>have   | e: A certificate of n<br>(s) Transmittal. This<br>ers. Each additional  | nailing of<br>certification<br>paper, so               | can only be used fo<br>ate cannot be used fo<br>uch as an assignment  | or domestic mailings of the<br>for any other accompanying<br>int or formal drawing, must   |  |
| PANITCH SCHWARZE BELISARIO & NADE ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200   |  |   | LLP Lhe  | Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. |  |   |  |  |
| PHILADELPHI  | A, PA 19103  |   |  |   |  |   | (Depositor's name)   |  |
|  |  |   |  |   |  |   | (Signature)  |  |
|  |  |   |  |   |  |   | (Date)   |  |
| APPLICATION NO.  | FILING DATE  |   | FIRST NAMED INVENTOR   |   | ATTORN   | NEY DOCKET NO.  | CONFIRMATION NO.   |  |
| 10/596,242<br>TITLE OF INVENTION   | 06/06/2006<br>: VINYL-CIS-POLYBU   | TADIENE RUBBER A  | Yoshio Asakura<br>ND BUTADIENE RUBBE   | ER COMPOSITION  |  | 869-119US<br>1911299548E  | 4058   |  |
| APPLN. TYPE  | SMALL ENTITY   | ISSUE FEE DUE   | PUBLICATION FEE DUE  | PREV. PAID ISSUE  | FEE  | TOTAL FEE(S) DUE  | DATE DUE   |  |
| nonprovisional   | NO   | \$1510  | \$300  | \$0   |  | \$1810  | 02/12/2010   |  |
| EXAM   | INER   | ART UNIT  | CLASS-SUBCLASS   | ]   |  |   |  |  |
| NUTTER, N  | JATHAN M   | 1796  | 525-191000   | ,   |  |   |  |  |
| "Fee Address" ind.<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A   | ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp | nge of Correspondence  Indication form ed. Use of a Customer  TO BE PRINTED ON  | 2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be THE PATENT (print or type data will appear on the patent attolisted). The patent of | 3 registered patent vely, e firm (having as a rigent) and the namerneys or agents. If n printed.  be) atent. If an assignerassignment.  | member<br>s of up to<br>o name                         | a 2ois 3  | ocument has been filed for   |  |
| Please check the appropri  |  |   |  |   |  |   | oup entity Government  |  |
|  | are submitted:<br>To small entity discount p<br># of Copies  | permitted)  | <ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>   |   |  |   |  |  |
| 5. Change in Entity State  | <b>tus</b> (from status indicated<br>s SMALL ENTITY state  |   | ☐ b. Applicant is no long  | gar alaiming SMALI  | I ENTT   | TV status See 37 C  | ED 1.27(a)(2)  |  |
|  | d Publication Fee (if requ   | ired) will not be accepte   | d from anyone other than t   |   |  |   | ne assignee or other party in  |  |
| Authorized Signature   |  |   |  | Date  |  |   |  |  |
| Typed or printed name  |  |   |  | Registration No   | D  |   |  |  |
| This collection of inform<br>an application. Confident<br>submitting the completed<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | tiality is governed by 35<br>d application form to the<br>ions for reducing this but<br>irginia 22313-1450. DC   | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>den, should be sent to the<br>DOOT SEND FEES OR | on is required to obtain or r<br>1.14. This collection is est<br>depending upon the indiv<br>e Chief Information Office<br>COMPLETED FORMS TO  | etain a benefit by th<br>imated to take 12 m<br>idual case. Any con<br>er, U.S. Patent and T<br>D THIS ADDRESS.   | e public<br>inutes to<br>nments of<br>Trademan<br>SEND | which is to file (and<br>complete, includir<br>on the amount of ti<br>rk Office, U.S. Dep<br>TO: Commissioner | d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |  |

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| 10/596,242                       | 10/596,242 06/06/2006 Yoshio Asakura |                      | 9369-119US<br>                 | 4058             |
| 570 75                           | 90 11/12/2009                        |                      | EXAMINER                       |                  |
| PANITCH SCHV                     | WARZE BELISARIO                      | NUTTER, NATHAN M     |                                |                  |
| ONE COMMERC                      |                                      | ART UNIT             | PAPER NUMBER                   |                  |
| 2005 MARKET S'.<br>PHILADELPHIA, | FREET, SUITE 2200<br>PA 19103        |                      | 1796<br>DATE MAILED: 11/12/200 | 9                |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 476 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 476 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|  | Application No.  | Applicant(s)  |                                  |
|--|--|---|----------------------------------|
|  | 10/596,242   | ASAKURA ET AL.  |                                  |
| Notice of Allowability   | Examiner   | Art Unit  |                                  |
|  | Nathan M. Nutter   | 1796  |                                  |
|  | Nathan M. Nutter   | 1796  |                                  |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31   | (OR REMAINS) CLOSED or other appropriate commander (RIGHTS). This application is | in this application. If not included nunication will be mailed in due cours | se. <b>THIS</b><br>he initiative |
| 1. $\boxtimes$ This communication is responsive to <u>9 September 2009</u> .   |  |   |                                  |
| 2. The allowed claim(s) is/are <u>43-57</u> .  |  |   |                                  |
| <ul> <li>3. Acknowledgment is made of a claim for foreign priority unally all blooms. All blooms are considered by a claim for foreign priority unall blooms.</li> <li>1. Certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents.</li> </ul> | e been received.<br>e been received in Applicat                                  | ion No  | rom the                          |
| International Bureau (PCT Rule 17.2(a)).   |  |   |                                  |
| * Certified copies not received:   |  |   |                                  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |  | le a reply complying with the requirer                                      | nents                            |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give   |  |   | E OF                             |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") mu  | st be submitted.   |   |                                  |
| (a) ☐ including changes required by the Notice of Draftsper  | son's Patent Drawing Revie   | ew ( PTO-948) attached  |                                  |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date   | _·   |   |                                  |
| <ul><li>(b) ☐ including changes required by the attached Examiner<br/>Paper No./Mail Date</li></ul>  | 's Amendment / Comment   | or in the Office action of  |                                  |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in   |  |   | ) of                             |
| 6. DEPOSIT OF and/or INFORMATION about the depo<br>attached Examiner's comment regarding REQUIREMENT   | osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF B                                 | FERIAL must be submitted. Note t<br>IOLOGICAL MATERIAL.                     | he                               |
|  |  |   |                                  |
| Attachment(s)  |  |   |                                  |
| 1. Notice of References Cited (PTO-892)  |  | nformal Patent Application  |                                  |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)   |  | Summary (PTO-413),<br>b./Mail Date  |                                  |
| 3. ☑ Information Disclosure Statements (PTO/SB/08),  | 7. 🗌 Examiner  | s Amendment/Comment   |                                  |
| Paper No./Mail Date <u>See Continuation Sheet</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit  | 8 M Evaminer   | s Statement of Reasons for Allowand   | ۵,                               |
| of Biological Material   |  |   | , <del>C</del>                   |
| /Nothern NA Nivitery/  | 9.   | <u></u> ·   |                                  |
| /Nathan M. Nutter/ Primary Examiner, Art Unit 1796   |  |   |                                  |
| Timely Examinor, factoric 1700   |  |   |                                  |
|  |  |   |                                  |

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 09-09-09, 10-16-09, 10-07-09, 9-23-09A, 9-23-09B, 9-23-09C.

Application/Control Number: 10/596,242 Page 2

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### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: No prior art has been found or presented that either teaches or fairly suggests the manufacture of a vinyl.cis-polybutadiene rubber composition comprising cis-polybutadiene rubber, 1,2-polybutadiene, and a polymer substance having a melting point lower than that of the 1,2-polybutadiene and having at least one unsaturated double bond per repeating unit, wherein the polymer substance comprises at least one selected from the group consisting of polyisoprene, crystallizable polybutadiene having a melting point less than 170°C, liquid polybutadiene, a polymeric compound containing an ether group, an epoxy group, a carboxyl group, an ester group, a hydroxyl group, or a carbonyl group, and derivatives of the polymer substance thereof, and wherein the cis-polybutadiene rubber is a matrix component of the vinyl cis-polybutadiene rubber, and wherein the 1,2-polybutadiene and the polymer substance are dispersed in the cis-polybutadiene rubber matrix component in an adsorbed state, so as to be insoluble in boiling n-hexane.

The Information Disclosure Statement of 9 September 2009 contained documents considered to be relevant, but of the instant patent family, and having no precedence of priority. As such, those documents and the documents cited on the various IDS forms are not deemed to negate the patentability of the instant claims.

Since there are no outstanding issues with regard to the clarity or enablement of the claims, these claims are deemed to contain allowable subject matter. Application/Control Number: 10/596,242 Page 3

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nathan M. Nutter/ Primary Examiner, Art Unit 1796

nmn

2 November 2009